

SURFACE PLASMON SENSOR

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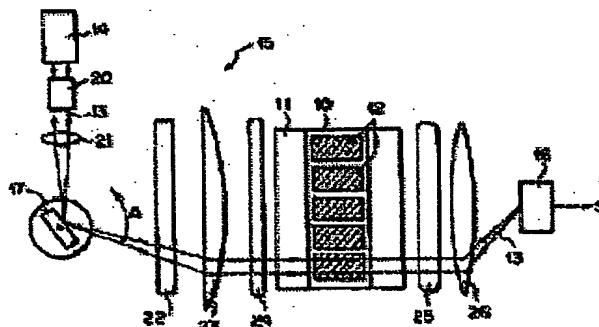
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Abstract of JP9292332

PROBLEM TO BE SOLVED: To obtain the surface plasmon sensor, which can perform the analysis of many samples all together at one time, can secure the high analysis accuracy by eliminating the dispersion of the amounts of light between channels and can be formed at a relatively low cost. **SOLUTION:** This surface plasmon sensor is provided with and constituted of a prism 10, a metal film 12, which is formed on one surface of the prism and in contact with a sample 11, a light source 14, which generates a single light beam 13, an optical system 15, which passes the light beam 13 through the prism 10 and applies the beam into the interface between the prism 10 and the metal film 12 so as to obtain various values of incident angles, and photodetector means 16, which detects the intensity of the light beam 13, totally reflected from the interface 10a at every incident angle of various valves. In this case, the optical beam 13 before the incidence into the prism 10 is deflected by a light deflecting means 17, so that the beam is sequentially projected to the different parts of the interface.



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